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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	
LE, HOANGANH T	

ART UNIT	PAPER NUMBER
2821	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/821,780	REGALA, FLORENIO	
	Examiner	Art Unit	
	HoangAnh T. Le	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-25 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-6 and 12-25 is/are rejected.

7)☒ Claim(s) 7-11 is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Hoanganh Le
Primary Examiner

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-6, and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Ogawa et al (the US patent No. 5,539,419).

The Ogawa et al reference teaches in figure 14 an antenna assembly comprising: an antenna/radio interface 105; a body section 104 connected to the antenna/radio interface, and a group of omnidirectional radiating elements 1407,1408,1409 connected to the body section and surrounding a directional radiating element assembly 106, the group of omnidirectional radiating elements having a first position within the body section for an omnidirectional mode of the antenna assembly and a second position within the body section for a directional mode of the antenna assembly (figure 14 and col. 9, lines 13-29).

Regarding claim 2, an inherent switch for selecting between one of the omnidirectional mode and the directional mode of the antenna assembly.

Regarding claim 3, the body section includes: an inherent switch for selecting between one of the omnidirectional mode and the directional mode of the antenna assembly, and at least one inherent matching circuit.

Regarding claim 4, the body section including an inherent amplifier.

Regarding claim 5, the omnidirectional radiating elements being arranged perpendicular to a directional transmission axis of the antenna and serving as a reflector for the directional radiating element assembly when in the directional mode (col. 8, lines 24-46).

Regarding claim 6, the antenna/radio interface is a coaxial cable connector (figure 14).

Regarding claim 12, the omnidirectional mode is an electrical connection between the group of omnidirectional radiating elements and the antenna/radio interface.

Regarding claim 13, the group of omnidirectional radiating elements includes at least two elements (figure 14).

Regarding claim 14, the group of omnidirectional radiating elements having an adjustable length (figure 14).

4. Claims 15-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Yarsunar (the US patent No. 5,469,181).

Regarding claim 15, the Yarsunas reference teaches in figures 1 and 2 a dual-band antenna comprising at least one omnidirectional radiating element 16,18 and a directional radiating element 14 located on a body section, with the directional radiating element having at least two radiators 32,34 and the body section having positions for deploying and storing reflectors for the directional radiating element.

Regarding claim 16, the at least one omnidirectional radiating element having a first position within the body section for an omnidirectional mode of the antenna and a second position within the body section for a directional mode of the antenna (col. 3, lines 28-67).

Regarding claim 17, the omnidirectional mode is an electrical connection between the at least one omnidirectional radiating element and an input/output interface and the directional mode is an electrical connection between the directional radiating element and an input/output interface (figure 1).

Regarding claim 18, the radiators are arranged perpendicular to a directional transmission axis for a directional mode of the antenna and parallel to a directional transmission axis for an omnidirectional mode of the antenna (figure 1).

Regarding claim 19, the omnidirectional mode is an electrical connection between the at least one omnidirectional radiating element and an input/output interface and the directional mode is an electrical connection between the directional radiating element and an input/output interface (figure 1).

Regarding claim 20, the at least one omnidirectional radiating element is arranged perpendicular to a directional transmission axis and serving as a retlector for

the directional radiating element when the antenna assembly is in a directional mode (figure 1).

Regarding claim 21, the directional mode is an electrical connection between the directional radiating element and an input/output interface.

Regarding claim 22, the body section includes at least one inherent matching circuit and an inherent switch.

Regarding claim 23, the body section includes at least one inherent amplifier.

Regarding claim 24, the elements is adjustable in length (col. 3, lines 1-67).

Regarding claim 25, the at least two radiators 16,18 is adjustable in length

Allowable Subject Matter

5. Claims 7-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: None of the cited art discloses the directional radiating element assembly includes an elongated section having a first end and a second end with the first end connected to the body section of the antenna assembly and the second end having two radiators.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T. Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hoanganh Le
Primary Examiner